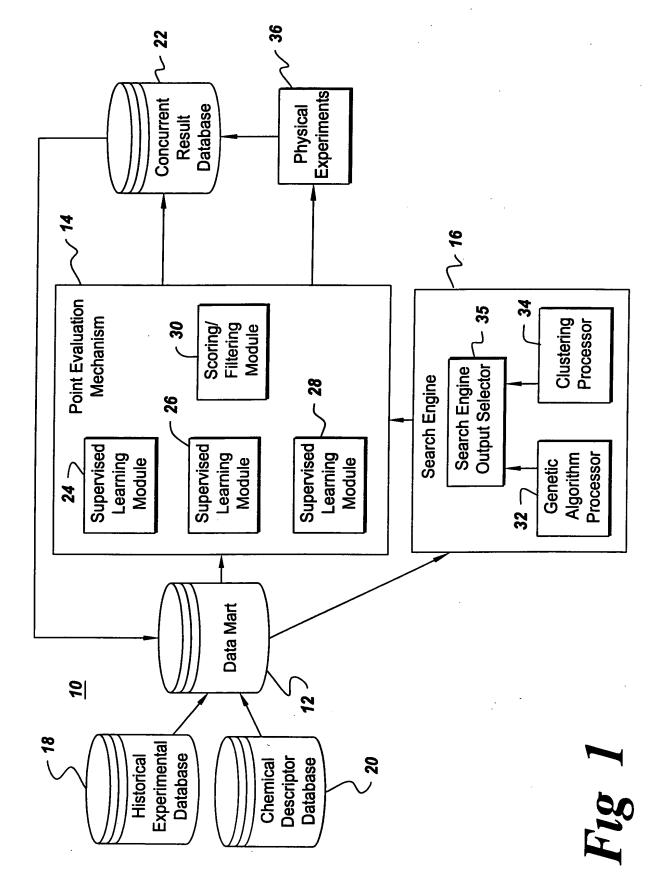
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Fig. 2

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Metal	Electro- negativity	Atomic Radius Covalent Radius		lonization Potential	Atomi	Electrom Affinity			
Bi	1.67	1.7	1.46	7.29	7.29	16.16	25.56	45.3	0.95
Ca	1.04	1.97	1.74	6.11	6.11	11.9	50.908	67.1	0.18
Co	1.46	1.54	1.48	9	8.99	16.91	37.48	NA	NA
Се	1.06	1.81	1.65	5.53	5.47	10.85	20.2	36.72	NA
Co	1.7	1.3	NA	7.87	7.86	17.06	33.5	51.3	0.662
Cr	1.56	1.27	NA	6.76	6.76	16.5	30.96	49.1	0.666
Cs	0.86	2.67	2.25	3.89	3.89	25.1	NA	NA	0.47
Cu	1.75	1.28	1.38	7.73	7.726	20.29	36.83	55.2	1.235
Eu	1.01	2.04	1.85	5.68	5.67	11.25	24.9	NA	NA
Fe	1.64	0.68	0.72	7.9	7.87	16.18	30.65	54.8	0.151
Ga	1.82	1.4	1.26	6	6	20.51	30.71	64	0.3
In	1.49	1.66	144	5.79	5.78	18.87	28.03	54	0.3
Ir	1.55	1.36	NA	9	9.1	NA	NA	NA	1.565
La	1.08	1.86	1.69	5.61	5.57	11.06	19.1	NA	NA
Mn	1.6	1.26	NA	7.43	7.43	15.64	33.66	51.2	NA
Ni	1.75	1.24	NA	7.63	7.63	18.17	35.17	54.9	1.156
Pb	1.55	1.75	1.47	7.417	7.416	15.032	31.94	42.32	NA
Re	1.46	1.37	NA	7.87	7.9	NA	NA	NA	0.15
Rh	1.45	1.34	NA	7.46	7.46	18.08	31.06	NA	1.137
Ru	1.42	1.33	NA	7.37	7.37	16.76	28.47	NA	1.05
Sb	1.82	1.5	1.38	8.641	8.64	16.53	25.3	44.2	NA
Sn	1.72	1.5	1.41	7.344	7.34	14.63	30.5	40.7	NA
Ti	1.32	1.45	1.36	6.82	6.82	13.58	27.49	43.26	0.079
Yb	1.06	1.93	1.7	6.22	6.25	12.17	25	NA	0.5
Zn	1.66	1.38	1.31	9.39	9.394	17.964	39.722	59.4	NA
Zr	1.22	1.6	1.48	6.835	6.84	13.13	22.99	34.34	NA

Fig. 3

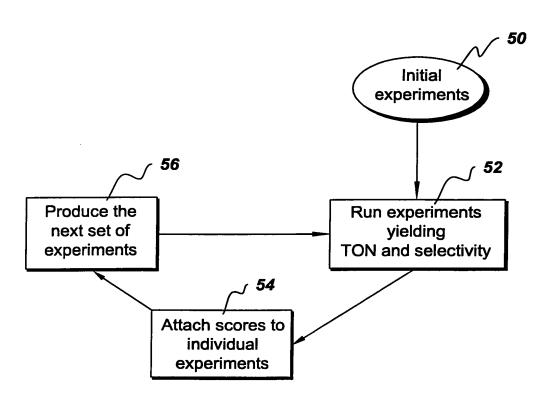


Fig. 4

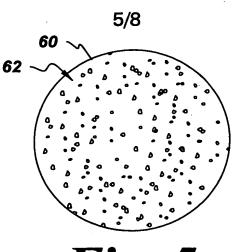


Fig. 5

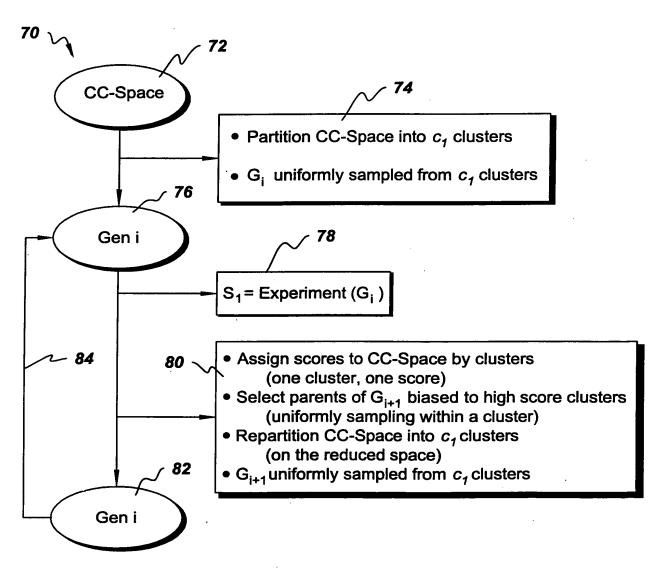
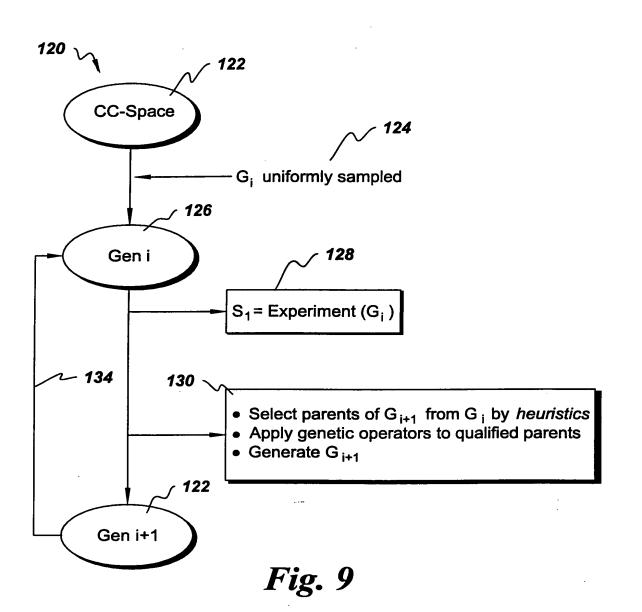


Fig 6



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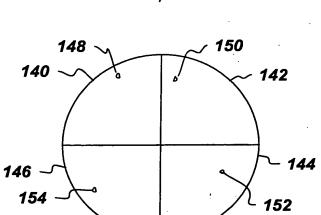


Fig. 10

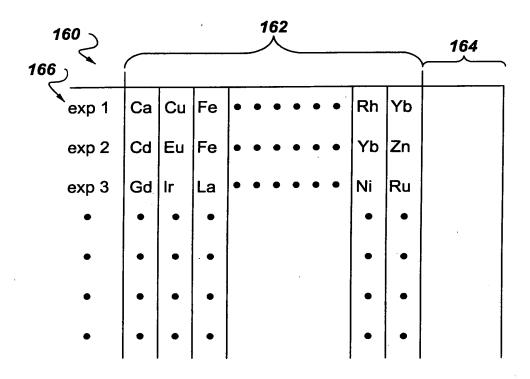


Fig. 11

